

ABSTRACT OF THE DISCLOSURE

Moldable bone implants for use in a bone defect or wound include a plurality of biocompatible granules and a biocompatible polymer that together form an implant mass. The polymer is softened with a plasticizer to make the implant mass moldable. The plasticizer can dissipate or be extracted to cause the implant mass to harden. The implant mass can be shaped *in-situ* or *ex-situ*. Implants formed *in-situ* are shaped by the bone defect or wound. The implant becomes hard through contact with body fluids, which extracts the plasticizer from the implant mass. Bone implants formed *ex-situ*, such as in a mold, are shaped by a mold, for example, and then hardened by placing the implant mass in contact with a hardening agent, such as water, which extracts the plasticizer from the implant mass. The shaped, hardened implant can be placed into a bone defect of corresponding size and shape.

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